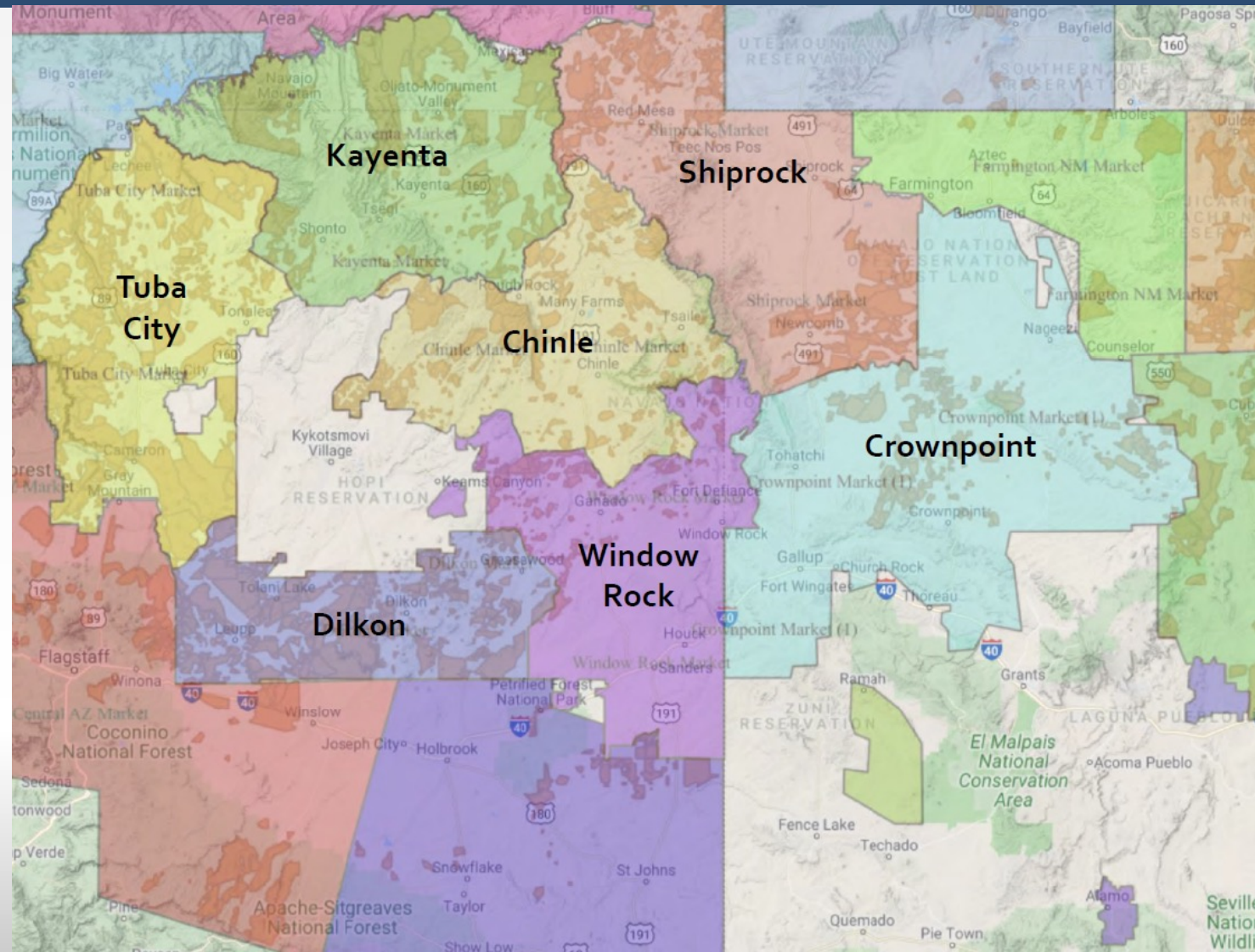


Utah Broadband Advisory Council Meeting

April 6, 2022



CARES Site Deployment Status Summary

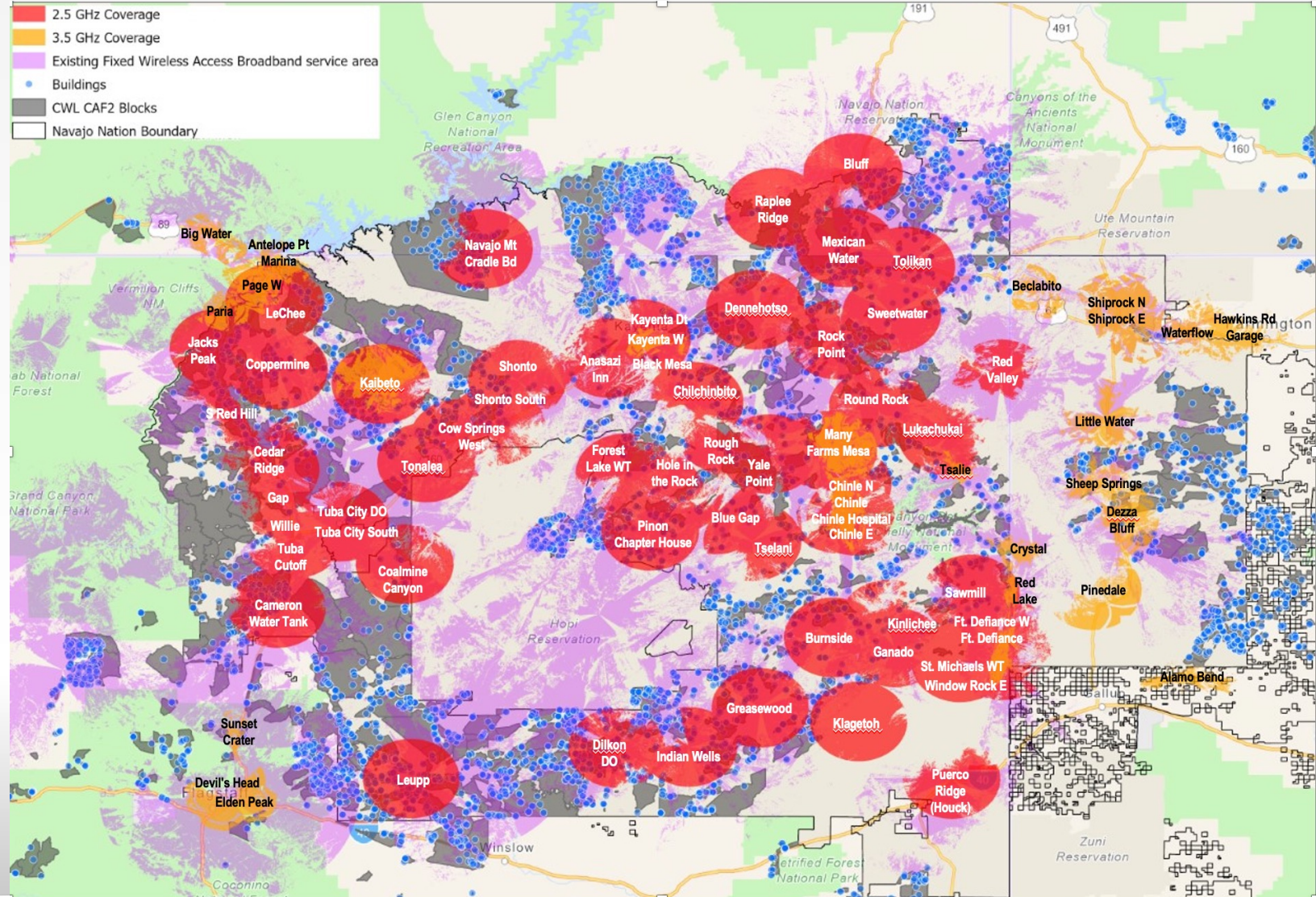
TUBA CITY (23 Sites)	DILKON (7 Sites)	KAYENTA (15 Sites)	CHINLE (17 Sites)	WINDOW ROCK (14 Sites)	SHIPROCK (16 Sites)	CROWNPOINT (12 Sites)
CONSTRUCTION COMPLETE						
Antelope Point Marina [CBRS] Big Water [CBRS] Cameron Water Tank [EBS] Cedar Ridge [EBS] Coalmine Canyon [EBS] Coppermine [EBS] Cow Springs West [EBS] Gap [EBS+600] Jacks Peak [EBS] <u>Kaibeto</u> [EBS] LeChee [EBS] Page West [CBRS + 600] Paria [CBRS + 600] South Red Hill [EBS] <u>Tonalea</u> [EBS + 600] Tuba City DO [EBS] Tuba Cutoff [EBS + 600] Tuba City South [EBS + 600] Willie [EBS]	Devil's Head [CBRS + 600] Dilkon DO [EBS] Elden Peak [CBRS] Greasewood [EBS] Indian Wells [EBS] Leupp [EBS] Sunset Crater [CBRS]	Anasazi Inn [EBS] Black Mesa [EBS + 600] <u>Chilchinbeto</u> [EBS] <u>Dennehotso</u> [EBS] Kayenta Downtown [EBS] Kayenta West [EBS + 600] <u>Navajo Mt Cradle Board</u> [EBS] Raplee Ridge [EBS] Shonto [EBS] Shonto South [EBS]	Blue Gap [EBS + 600] Chinle [EBS] Chinle East [EBS + 600] Chinle Hospital [EBS + 600] Chinle North [EBS + 600] Forest Lake WT [EBS + 600] Hole in the Rock [EBS + 600] <u>Lukachukaj</u> [EBS] Many Farms Mesa [EBS + 600] Pinon CH [EBS + 600] Rock Point [EBS + 600] Round Rock [EBS + 600] <u>Tsalie</u> [CBRS] <u>Tselani</u> [EBS] Yale Point [EBS]	Burnside [EBS] Crystal [EBS + 600] Ft Defiance [EBS] Ft Defiance West [EBS + 600] Ganado [EBS + 600] Kinlichee [EBS] <u>Klagetoh</u> [EBS]** Puerco Ridge/Houck [EBS] Red Lake [CBRS] Sawmill [EBS] St Michaels WT [EBS] Summit East [EBS + 600] Window Rock East [EBS + 600] Wood Springs [EBS + 600]	<u>Belcabito</u> [CBRS + 600] Bluff [CBRS] Fruitland [CBRS + 600] Little Water [CBRS + 600] <u>Mexican Water</u> [EBS] Red Valley [EBS] Sheep Springs [CBRS + 600] Shiprock East [CBRS + 600] Shiprock North [CBRS + 600] Sweetwater [EBS] <u>Tolikan</u> [EBS] Tse Daa Kaan [CBRS + 600] Two Grey Hills [CBRS + 600] Waterflow [CBRS]	Alamo Bend [CBRS] <u>Atrisco</u> [CBRS]** <u>Dezza Bluff</u> [CBRS] Hawkins Rd Gar [CBRS + 600] Pinedale [CBRS + 600] <u>Torreón</u> [CBRS]**
DID NOT COMPLETE						
Gray Mountain [CBRS] ** Page [CBRS + 600] ** Tuba City [EBS + 600] <u>Wahweap</u> [CBRS]		Marsh Pass [EBS] Monument Valley [EBS + 600] Navajo Mountain [EBS] <u>Oljato</u> [EBS] (1) View Hotel [EBS]	<u>Jedeezah</u> [EBS + 600] Low Mountain South [EBS + 600]		Aneth [EBS] (2) C&J Trucking [CBRS + 600] **	Bloomfield [CBRS + 600] ** Counselor [CBRS + 600] Crestview [CBRS] Farmington Bluffs [CBRS + 600] ** Huerfano Mt [CBRS] ** <u>Nageezi</u> [CBRS + 600]

CARES Coverage Map

- EBS Deployment: 61
- CBRS Deployment: 24 Sites

EBS Spectrum Access Agreement with NNTRC

- Arizona
- Utah



Public Wi-Fi Hot Spots

	Location	Host	In-Service Date		Location	Host	In-Service Date
1	Tuba City	Fair Grounds	4/28/20	21	Dennehotso	Market Store	5/14/20
2	Window Rock	Fair Grounds	4/24/20	22	Tohatchi	Chapter House	6/10/20
3	Kayenta	KUSD Campus	4/29/20	23	Houck	Chapter House	7/23/20
4	Kayenta	KUSD Campus	4/29/20	24	Low Mountain	Chapter House	7/31/20
5	Pinon	Chapter House	11/5/20	25	Blue Gap	Chapter House	8/12/20
6	Tsaile	Chinle USD	5/12/20	26	Birdsprings	Little Singer	8/17/20
7	Many Farms	Chinle USD	5/11/20	27	Aneth	Chapter House	8/18/20
8	Rock Point	Community School	5/4/20	28	Forest Lake	Chapter House	9/1/20
9	Crownpoint	NTU Campus	5/21/20	29	Hard Rock	Chapter House	9/8/20
10	Dilkon	NTUA DO	5/8/20	30	Coppermine	Chapter House	9/10/20
11	Mexican Water	Chapter House	5/15/20	31	Shiprock	Fair Grounds	10/6/20
12	Navajo	DEAP School	5/6/20	32	Red Valley	Chapter House	10/12/20
13	Ganado	GUSD Campus	5/20/20	33	Sheep Springs	Chapter House	10/14/20
14	Burnside	GUSD Campus	5/20/20	34	Kaibeto	Chapter House	11/4/20
15	Tuba City	TCUSD Pavillion	5/13/20	35	Bodaway/The Gap	Chapter House	11/5/20
16	Cameron	TCUSD Elementary	5/13/20	36	Kin Da' Lichii	Chapter house	11/5/20
17	Birdsprings	Chapter House	5/5/20	37	Leupp	Chapter House	12/22/20
18	Tsaile	Dine' College	5/14/20	38	Oak Springs	Chapter House	12/17/20
19	Coalmine Canyon	Chapter House	5/22/20	39	Lechee	Chapter House	12/22/20
20	Tonalea	Chapter House	5/18/20	40	Ft. Defiance	NTUA HQ	4/23/20
				41	Black Mesa	Peabody Mine	1/5/22

Business Development – Grant Funding Updates

Funding Source	Project	State	\$\$	Business Dev	Proposal Submitted	Won / Awarded	Engineering	Permitting	Construct	Closeout	In Service
New Mexico State Grant	FW	NM	\$1,055,206.22								
Community Connect Grant	FW	AZ	\$2,119,447.77								
CARES Defunded	FW	AZ, NM, UT	\$4,920,432								
Utah Broadband Grant	FTTH	UT	\$417K								
NTIA Broadband Grant	FW	AZ, NM, UT	\$4,185,721								
ARPA	FTTH & FW	AZ, NM, UT	\$31,852,642								
Arizona Commerce Authority	FTTH	AZ	\$1,197,369								
USDA ReConnect	FTTH	AZ, NM	\$13.5M								
Infrastructure Bill	FTTH	AZ, NM, UT	?								

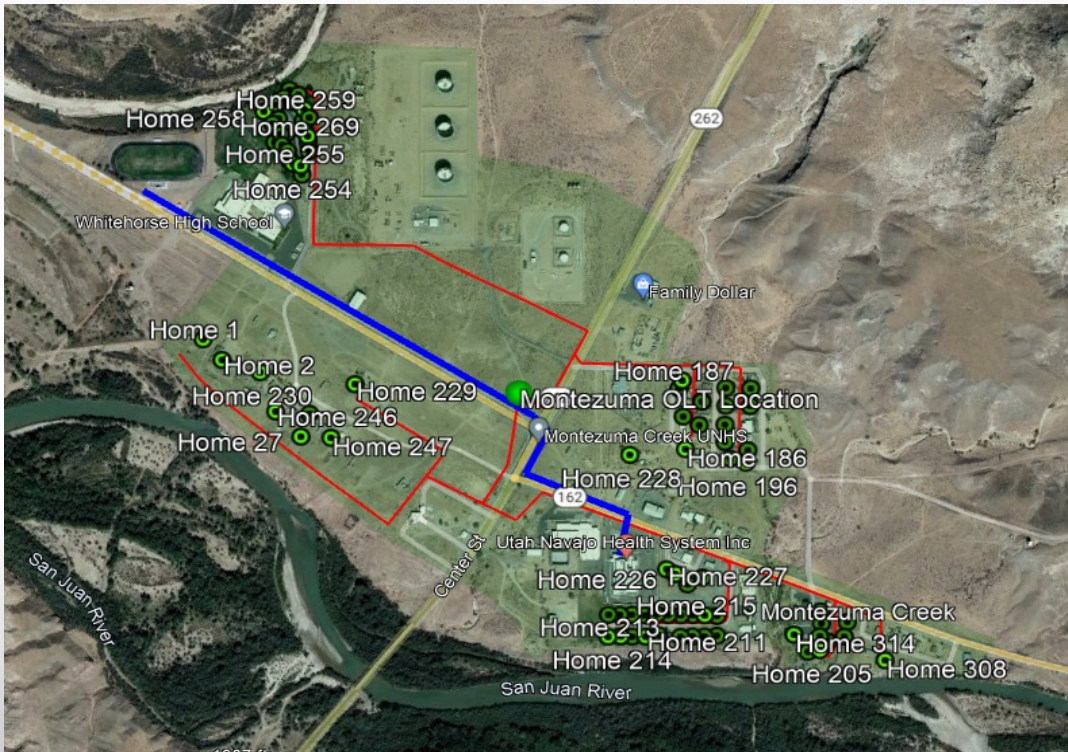
Awarded: UT Broadband Grant / Montezuma Creek

Utah Broadband Grant

Application Submitted November 1, 2021

Montezuma Creek Fiber to the Home

Last Mile Connections to 96 Locations
(82 Residential & 14 Business Customers)



- Last mile network will connect to Emory Telephone's middle mile and access the internet in Salt Lake City.
- Build out must be completed in 18 months of award.
- NTUAW proposes to offer commercial plans starting at 50MB up to 1 Gig.
- Project cost is \$417K which includes a 35% contingency for supply chain issues, shortages in labor market and any make ready work that may be needed. Without the contingency the projected cost is \$310K.
- NTUAW must provide a 25% match. \$104K maximum. Based on Chris A's model the payback period is around 6 years.

Awarded: USDA Community Connect / Teec Nos Pos

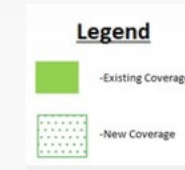
USDA Community Connect Funds

Total Project Cost: \$2,119,447.77

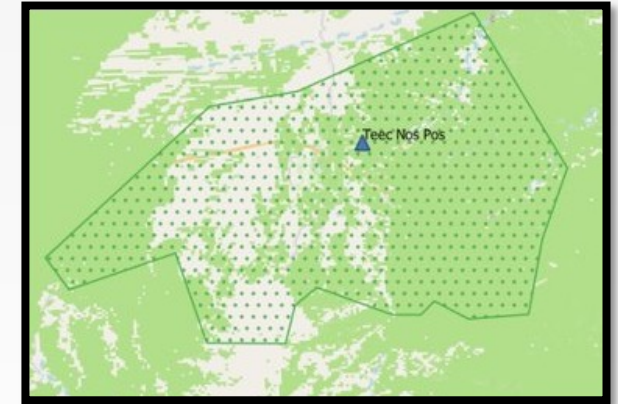
Grant: \$1,801,556.11 + Match: \$317,921.67

Estimated 271 electric meters will be covered.

- Fiber Buildout: 30 Miles to tower from Cudei & 2.53 Miles of lateral fiber to new tower.
- Deliver 10GB to new tower.
- Tower Build – 180ft
- Mobility (600mhz) & Fixed Wireless Broadband (EBS/2.5GHz)
- Set up computer lab in the Chapter House for public use for two-years.



Existing Coverage



After Project Completed Coverage



Funded: CARES Defunded/Expansion

Chapter	Project Description	Total Project Amount	Project Location			Total Projects
			AZ	NM	UT	
Low Mountain	Low Mountain South - WISP Build-out (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
Tuba City	Tuba City - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
Tolani Lake	Tolani Lake - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
Teesto	Teesto - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
Aneth	Aneth - WISP Overlay on TCB Sites (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 155,221			1	1
Crownpoint	Crownpoint - WISP Overlay (Fixed Wireless Broadband (CBRS/3.5GHz & 600MHz))	\$ 211,061		1		1
Nageezi	Nageezi - WISP Overlay (Fixed Wireless Broadband (CBRS/3.5GHz & 600MHz))	\$ 211,061		1		1
Counselor	Counselor - WISP Overlay (Fixed Wireless Broadband (CBRS/3.5GHz & 600MHz))	\$ 211,061		1		1
Huerfano	Huerfano Mountain - WISP Overlay (Fixed Wireless Broadband (CBRS/3.5GHz & 600MHz))	\$ 155,221		1		1
Tohatchi	Dezza Bluff - WISP Overlay on TBC Sites (Fixed Wireless Broadband (CBRS/3.5GHz & 600MHz))	\$ 155,221		1		1
Oljato	Monument Valley Campground - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 221,061			1	1
Rough Rock	Rough Rock - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
Cameron	Gray Mountain - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 155,221	1			1
Lechee	Coal Mine Wash/NNDOT - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061		1		1
Steamboat	Steamboat West - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz))	\$ 155,221	1			1
Hard Rock	Hard Rock - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz))	\$ 155,221	1			1
Navajo Mountain	Navajo Mountain - WISP Overlay on TBC Sites (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 430,416			1	1
Kayenta	Marsh Pass - WISP Overlay on TBC Sites (Fixed Wireless Broadband (EBS/2.5GHz))	\$ 155,221	1			1
Oljato	View Hotel - WISP Overlay (Fixed Wireless Broadband (EBS/2.5GHz))	\$ 155,221			1	1
Low Mountain	Jeedeez'ah - WISP Build-out (Fixed Wireless Broadband (EBS/2.5GHz & 600MHz))	\$ 211,061	1			1
TOTAL		\$ 4,920,432.00	10	6	4	20

Pending: Tribal Broadband (TBB) Grant

NTIA Tribal Broadband Grant

Application Submitted September 1, 2021

NTUAW Total Project Cost: \$4,185,721

1. Black Rock - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
2. Whitehorse – Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
3. Oaksprings - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
4. Jedeezah - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
5. Nazlini - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
6. Red Mesa Solar - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$460,416
7. TeecNosPos - Mobility (600MHz) & Fixed Wireless Broadband (EBS/2.5GHz) - \$450,000
8. Indian Wells - Fixed Wireless (EBS/2.5GHz) - \$211,061
9. Monument Valley – Fixed Wireless Broadband (EBS/2.5GHz) - \$211,061
10. Nageezi - Fixed Wireless Broadband (CBRS/3.5GHz) - \$211,061
11. Counselor - Fixed Wireless Broadband (CBRS/3.5GHz) - \$211,061
12. Tuba City - Fixed Wireless Broadband (EBS/2.5GHz) - \$211,061


NTUA Total Project Cost: \$13,393,958.58

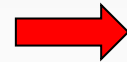
1. Black Rock – New Tower Build - \$123,693
2. Black Rock – Fiber Build (0.01 Mile) - \$11,466.40
3. Whitehorse – New Tower Build - \$520,900
4. Oaksprings – New Tower Build - \$520,900
5. Oaksprings – Fiber Build (1 Mile) - \$114,664.02
6. Jedeezah – New Tower Build - \$520,900
7. Jedeezah – Fiber Build - \$166,262.83
8. Nazlini – New Tower Build - \$520,900
9. Nazlini – Fiber Build (17.2 Miles) - \$2,006,620.39
10. Nazlini Head Start & Nazlini Chapter House - \$19,000
11. Red Mesa Solar – New Tower Build - \$935,960
12. Red Mesa Solar – Fiber Build (22.1 Miles) - \$2,532,928.25
13. TeecNosPos – New Tower Build - \$620,900
14. TeecNosPos – Fiber Build (8 Miles) - \$2,935,398.97
15. Navajo Mountain Chapter House Fiber Build (1 Mile) - \$114,664.02
16. Fiber Build Lechee Meet Point to Lechee Tower - \$121,173
17. Fiber Build to Tuba City Court House - \$31,651.75
18. Fiber Build to Tuba City Chapter House - \$74,560.77
19. Red Mesa Headstart & Chapter House - \$82,000
20. Mexican Water WT Fiber Build (3.7 Miles) - \$447,189.69
21. Fiber Upgrade (Schools & Healthcare) Switching Equipment - \$473,437
22. Navajo Mountain High School Fiber Build (4.4 Miles) - \$498,788.50

Pending: American Rescue Plan Act (ARPA)

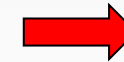
ARPA

Legislation No. 0257-21 proposes the following funding allocations:

 American Rescue Plan Act Infrastructure & Hardship Assistance Legislation	
Water & Wastewater Projects	\$301 Million
Broadband Infrastructure	\$208 Million
Electricity for Homes	\$200 Million
Housing	\$100 Million
Bathroom Additions	\$150 Million
Hardship Assistance	\$207 Million
TOTAL: \$1.166 BILLION	



<u>\$208 Million Breakdown:</u>	
❖	\$100 Million: NTUA & NTUAW
❖	\$45 Million: Other Carriers
❖	\$55 Million: Public Safety



<u>\$100 Million Breakdown:</u>	
❖	NTUAW: 84 Projects
❖	NTUA: 103 Projects

Pending Navajo Nation Council Legislation Amendments

ARPA projects at Chapter's discretion.

Emergency Connectivity - Fund Phase I

Phase I	Phase II	Self Funded
Rock Point Community School	Nazlini Community School	Lukachukai Community School
Central Consolidated District	Wide Ruins Community School	Red Rock Day School
Chinle USD - Student	Aneth Community School	Hunters Point Boarding School
Chinle USD– Bus Wi-Fi		
Black Mesa Community School		
Cottonwood Day School		
Seba Dalkai Boarding School		
Tuba City USD		
Pinon USD		
Greasewood Springs School		
Little Singer Community School		
Many Farms School		

Round Three Opportunity
April 28 – May 13

Available Funding: \$1B

Funds used between July 1, 2022-December 31, 2021,
however, only 12 Months of Service

Navajo Nation Consortium Phase I

NTUAW	Channel
Current	39 Chapters/Libraries
In Construction / Implementation	6 Chapters/Libraries
In Right of Way	25 Chapters/Libraries
Canceled	10 Chapters/Libraries (2)

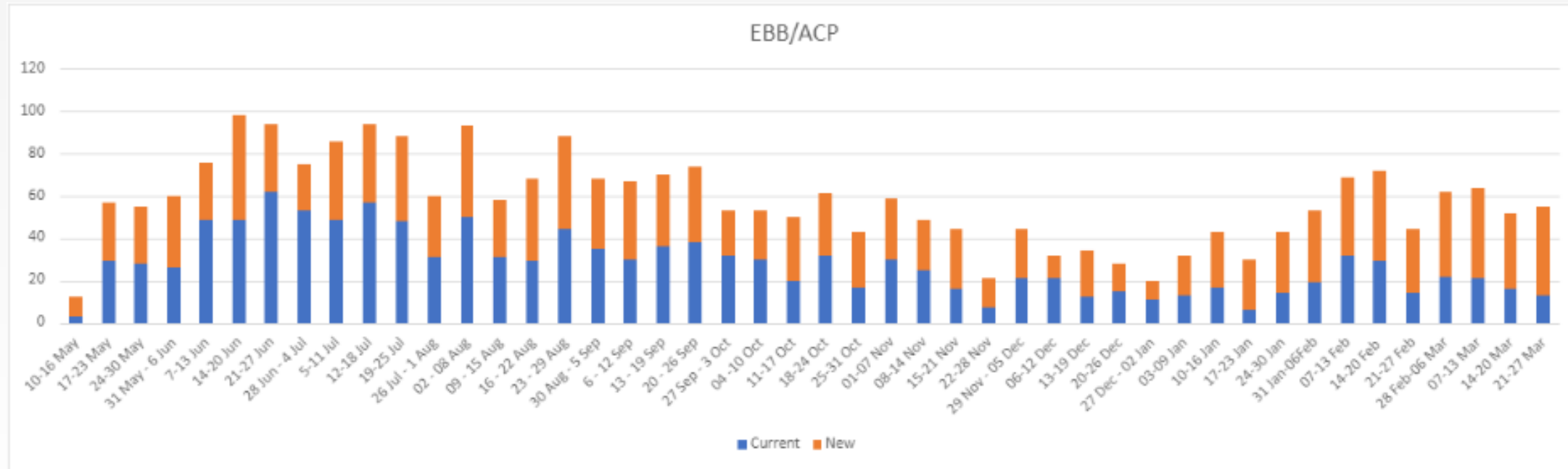
- Partnering with Sacred Winds delivering CIPA Compliant Internet Access to 31 Chapters/Libraries, we are pending installation of 8 more Sacred Wind Routers.
- We have 25 locations in the Rights of Way Process with NTUA Right of Way Department, these ROW Applications require a Chapter Supporting Resolution. This is our bottleneck in getting more sites constructed. The Consortium Team has to attend these Chapter Meetings with the help of Choice Wireless as needed.
- 10 Chapters/Libraries had to cancel services either due to building being condemned, anchor institution not being awarded or a Head Start Facility was apart of a lease agreement between Navajo Nation Child Care and Development Fund Office and the Navajo Head Start program.

Navajo Nation Consortium Phase II

NTUAW	Channel
Locations	11 Chapters/Libraries
In Construction / Implementation	0 Chapters/Libraries
In Right of Way	0 Chapters/Libraries

- Finalizing the Contract Language between Choice NTUA Wireless and the Navajo Nation Consortium group
- Provide 100Mbps Transport services to 11 Locations which is listed below:
 1. Shiprock Chapter House
 2. Head Start Regional Office Dist 5
 3. Tuba City Head Start I
 4. Blue Gap Head Start I/II
 5. Low Mountain Head Start
 6. To'Nanees'Dizi Chapter House
 7. Shonto Head Start I
 8. Shonto Chapter House
 9. Navajo Mountain Chapter House
 10. Teesto Chapter House
 11. Ts'ah Bii Kin/Inscription House Chapter

EBB & ACP Results



- The EBB is being replaced by the ACP (\$14.2B) on 31 December 2021, deadline to transition is 1 March 2022.
- Communication sent to customers informing of the change in plan and transfer of their service to the ACP.
- Qualification for the program remains the same as EBB – qualified participants registered in NLAD.
- Providers can now offer any set of plans, currently assessing rate plans for 25/3
- Tribal ACP reimbursement remains at \$75/m, but non-Tribal subsidy drops to \$30/m
- Qualifying subscribers on the Student Teacher Discount Program for ACP.

CAF-II Compliance

Current Coverage

ARIZONA
(NTUAW)

36%
of 4,959 HHs

- **Reporting:** NTUAW will report compliance to the FCC for 3 areas – one per State

- **2022 Compliance:** NTUAW must report the availability of qualifying HH coverage for 40% of the CAF-II Obligation by the end of 2022

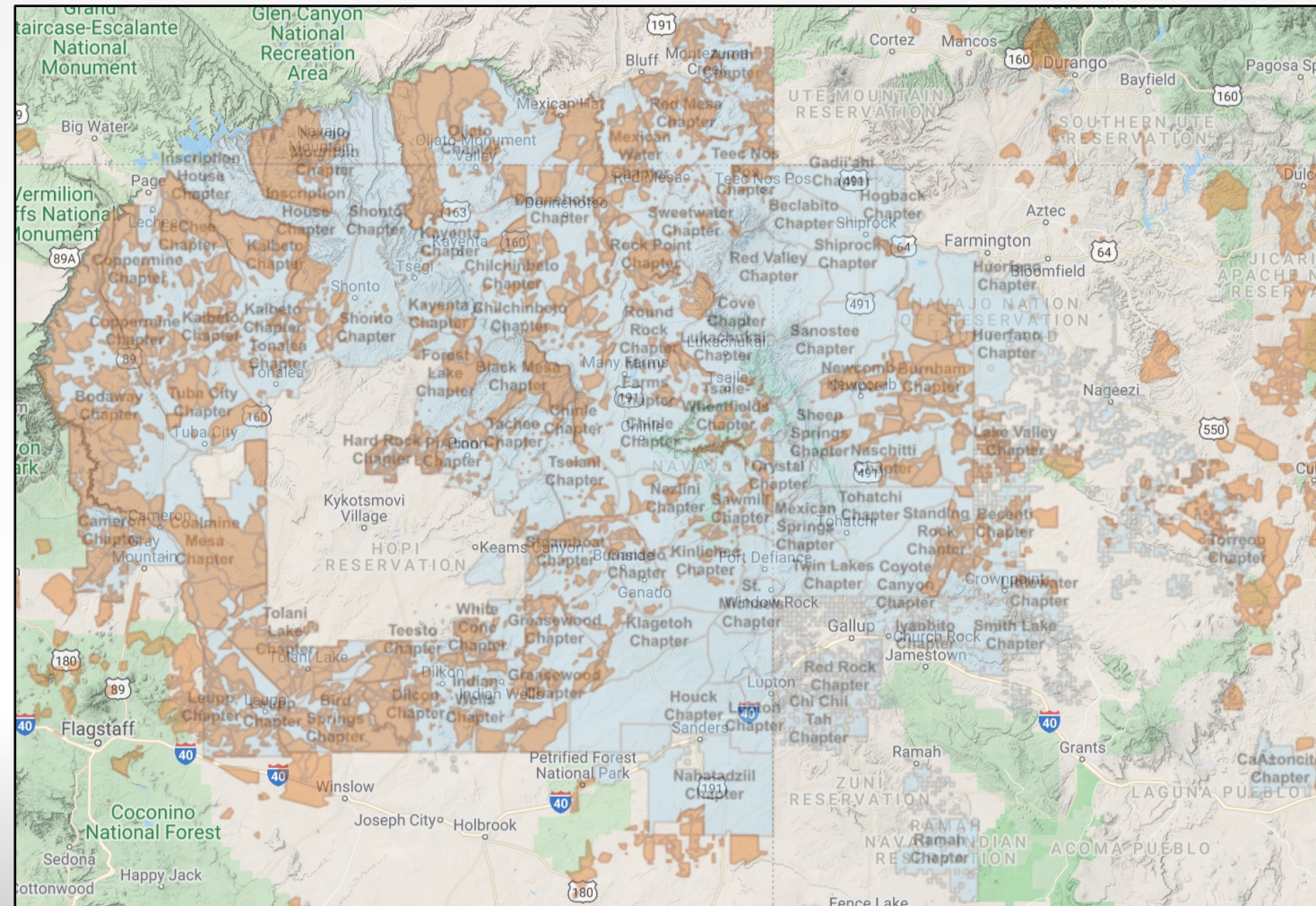
- **2022 Planning:** CARES Extension funding should enable sufficient coverage to achieve the coverage obligations. NM obligations will require the most focus. UT is already compliant.

NEW MEXICO
(NTUAW)

6%
of 1,476 HHs

UTAH
(NTUAW)

55%
of 606 HHs



Market Planning - NTUAW Expansion Strategy

Looking Forward...

- Fixed Wireless is the tool for reach and initial household coverage.
- Fiber to the Home (FTTH) as additional capacity for residents and businesses in the more densely populated housing areas.
- Actively working with the 4 major mobile network operators to expand their native (not roaming) coverage on the Nation.
- NTUAW has high interest in working with the local, county, and state government on local planning.
- Expand Eastern Agency & the Crownpoint Market

Nokia Documentary

November 1-3

A short documentary on the impact of the pandemic on the Navajo Nation and capturing their story.

- Delegate Otto Tso
- Marlita Haviland, Shonto School Principal
- Melanie Dewakuku, Shonto School Superintendent
- Walter Haase, NTUA General Manager
- NN President Jonathan Nez
- Chris Becenti, NNTRC Executive Director
- Velen Tsosie, NTUAW General Manager

Link to Nokia Video featuring the Navajo Nation:
<https://drive.google.com/file/d/1IHEw6j2Cs2ZfyBMGyKirefzk0ykegUrJ/view?usp=sharing>



Thank you!

Questions